Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	45	(document adj attribute) and (search or query) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 16:37
L2	9	707/10.ccls. and I1	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 16:37
L3	12	707/3.ccls. and I1	US-PGPUB; USPAT; JPO	OR .	OFF	2006/01/10 16:37
L4	7	707/4.ccls. and l1	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 16:37
S1	3	("6449598" or "6675159").pn. or "20010049677"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 22:23
S2	7	(search same criteria) and (keyword same match) and (document same attribute) and ((scal\$4 or adjust\$4 or normaliz\$4) same factor)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 12:54
S3	11	(search same criteria) and (keyword same match) and (document same attribute) and (multiple same links)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:29
S4	0	(search same criteria) and (document same attribute) and (incoming same multiple same links)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:16
S5	9	(search same criteria) and (incoming same multiple same links)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:19
S6	32	(search same criteria) and (number same incoming same links)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:39
S7	0	("number of links" or "number of incoming links") same (search near2 criteria) and documents	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:29
S8	0	(("number of links" or "number of incoming links") same (search same criteria)) and documents	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:28
S9	0	(("number of links" or "number of incoming links") and (search same criteria)) and documents	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:28
S10	0	(("number of links" or "number of incoming links") and (search same criteria))	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:28
S11	0	("number of links" or "number of incoming links")	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:29

S12	4	((number adj links) or (number near2 incoming near2 links)) same (search near2 criteria) and documents	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 10:30
S13	1	"20020198875"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:23
S14	1	(search same criteria) and (keyword same match) and (document same attribute) and (readability near index)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 11:10
S15	3	(search same criteria) and (keyword same match) and (document same attribute) and (readability)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 11:15
S16	1	(readability adj index) same search same document	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 11:16
S17	25	(readability adj index)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 11:17
S18	23	(search same criteria) and (keyword same match) and ((scal\$4 or adjust\$4 or normaliz\$4) same factor) and adjust\$4	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:22
S19	1	"5742816".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 14:12
S20	1071	(standard adj deviation) same (square adj root)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 14:59
S21	0	((standard adj deviation) same (square adj root)) and (readability same index)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 14:58
S22	1	((standard adj deviation) same (square adj root)) and (search same document)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 14:58
S23	7	(search same document) same (square adj root)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:02
S24	39	(search same document) same (square )	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:05
S25	1	(search same document) and (readability same index) same (search same criteria)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:05
S26	5	(search same document) and (readability ) same (search same criteria)	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:05

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S27	8	(search same criteria) and (keyword same match) and ((scal\$4 or adjust\$4 or normaliz\$4) same factor) and adjust\$4 and off\$1set	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:26
S28	23	(search same criteria) and (keyword same match) and adjust\$4 and off\$1set	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/13 15:27
S29	1	"20030088545"	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/19 12:13
S30	1	"20020138487"	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/19 12:25
S31	1	"5742816".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/07/19 12:25
S32	1	"20010042587"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:23
S33	6	(search adj criteri\$2) and (keyword same match) and (document same attribute) and (multiple same links)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:46
S34	5	(search adj criteri\$2) and (keyword same match) and (document same attribute) and (multiple same links)and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 16:53
S35	0	(search adj criteri\$2) and (keyword same match) and (document near2 attribute) and (multiple same links)and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:35
S36	32	(search adj criteri\$2) and (keyword same match) and (document same attribute)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 14:02
S37	1	(establish\$4 same (search adj criteri\$2)) and (keyword same match) and (document same attribute) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:47
S38	1	((creat\$4 or establish\$4) near3 (search adj criteri\$2)) and (keyword same match) and (document same attribute)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:57
S39	12	((creat\$4 or establish\$4) same (search adj criteri\$2)) and (keyword same match) and (document same attribute)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 13:57
S40	32	(search adj criteri\$2) and (keyword same match) and (document same attribute)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 14:03

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S41	21	scor\$3 same (search adj criteria) same database and @ad < "20010621"	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 16:54
S42	1	"6738759".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/09 18:32
S43	1657	(search same criteria) and (number same links)	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:40
S44	55	S43 and 707/4.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:41
S45	99	S43 and 707/1.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:41
S46	6	S44 and 707/1.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:41
S47	99	S45 and 707/1.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:42
S48	233	S43 and 707/3.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:42
S49	22	S43 and 707/9.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/02/10 07:42
S50	159	(search with document with attribute\$1) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:20
S51	35	((search adj criter\$3) with document with attribute\$1) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:34
S52	0	(((search adj criter\$3) with document with attribute\$1) same rank\$4) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:21
S53	0	(((search adj criter\$3) with document with attribute\$1) and rank\$4) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:21
S54	0	((search adj criter\$3) with document with attribute\$1) and rank\$4 and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:21
S55	0	((search adj criter\$3 with exclu\$4) same (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:35
S56	0	((search with criter\$3 with exclu\$4) same (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:35

S57	0	((search same criter\$3 same exclu\$4) same (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:36
S58	5	((search same criter\$3 same exclu\$4) and (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:37
S59	2	((search same criter\$3 same exclusive) and (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:40
S60	5	((search same criter\$3 same exclu\$5) and (document with attribute\$1)) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:50
S61	4	((search with criter\$3) same exclu\$5) and (document with attribute\$1) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:52
S62	1	(search with exclu\$5) same (document with attribute\$1) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:54
S63	1129	(search with exclu\$5) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:54
S64	46	(search with exclu\$5) same (search with criteria) and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:54
S65	19	(search with exclu\$5) same (search with criteria) and document and @ad < "20010620"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 21:54
S66	4	("6449598" or "6675159" or "6738759").pn. or "20010049677"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 22:24
S67	4	( "6675159" or "6738759").pn. or "20010049677" or "20020198875"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/12 22:25
S68	0	(dcoument adj attribute) and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:16
S69	301	(document adj attribute) and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:16
S70	55	(document adj attribute) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:17
S71	45	(document adj attribute) and (search or query) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 16:37
S72	4	(document adj attribute) and scor\$4 and criter\$4 and (search or query) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:30

S73	11	(document adj (attribute or metadata)) and scor\$4 and criter\$4 and (search or query) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:33
S74	11	((document or (web with page)) adj (attribute or metadata)) and scor\$4 and criter\$4 and (search or query) and key\$1word and @ad < "20011203"	US-PGPUB; USPAT; JPO	OR	OFF	2006/01/10 15:33



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Usage Rights	Return results that are	not filtered by license  More info	[ <del>\S</del> ]				
SafeSearch	No filtering C Filter using	<u>SafeSearch</u>					
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Web Results 1 - 77 of about 89 for search criterion keyword match score scaling "document attribute". (0.

#### [PS] Efficient Encodings for Document Ranking Vectors Taher H ...

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For efficient keyword-search query processing over large document repositories,

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create a new query which narrows down the search result set keywords are made

... between the contents of an information space and N search criteria. ...

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Detection criteria may be stated as Boolean keyword criteria and ... Priority scores

can be weighted, based on where in the document the match occurs, ...

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#### IPDFI CREATING A SYNTACTIC DOCUMENT ONTOLOGY

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Each document attribute reveals a unique aspect of the documents and helps with

infor-. mation display, identification, search and classification. ...

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**search** for a certain item: browsing, directed **search**, and exact **match** using. **keywords**. During experimentation, the performance of each subject is measured ...

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**keyword** strategies require an exact **keyword match**. **keyword** expansion is a. technique where one **keyword** is associated with many **search** terms, and has ... noah.cx/thesis24.pdf - Supplemental Result - Similar pages

#### Haveliwala, Taher H.: Efficient Encodings for Document Ranking Vectors

for Efficient **keyword-search** query processing over large Document repositories, ... for a large-scale search engine supporting millions of users, ...

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issuing the keyword queries "cryptography" and "neural. networks" to two Web

search services and two computer-. science citation search services, ...

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Criteria used for retrospective search and for Routing shall have the same ...

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Fuzzy match. • Keyword Search. • select the maximum Number of records to return

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is classified, portrait or landscape, by a class majority criterion Among the.

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a relevance **score**. In the realm of information sources, the Stanford InfoBus. provides wrappers for numerous **search** services (eg, Al-. taVista, Dialog). ...

doi.wiley.com/10.1002/ (SICI)1097-4571(2000)51:3%3C297::AID-ASI8%3E3.0.CO;2-N - Similar pages

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**Scaling** up such a "toy" system domain to a real-world task, eg a commercial application, ... It also requires the **document attribute** language swedish. ... www.sics.se/humle/projects/ svensk/docs/fredriko\_thesis.ps - <u>Similar pages</u>

#### [PDF] D3.4.1 - Detailed Design of Semantic Related BRICKS

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**Search criteria** expressed by The User, it must be discovered regardless of its ... The single character wildcard **Search** looks for terms that **match** that with ...

195.74.122.210/~twbell/BRICKS/D341-SemanticBRICKS.pdf - Supplemental Result - Similar pages

#### Verity Inc. (VRTY) NASDAQ - Corporate Window - Indexed Form 10-K ...

... automatically based upon user-specified **criteria**. ... retrieval methods including **keyword**, thesauri, dictionaries and ... or "clustering", of **search** results according ...

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#### United States Patent Application: 0050060643

4823306, entitled "text **Search** SYSTEM" AND issued to Barbic, et al (1989) A method is described that generates synonyms of **keywords**. ... appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&u=%2Fnetahtml%2FPTO%2F**search**-adv.html... - 257k - Supplemental Result - Cached - Similar pages

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if the **Search** Tool was present, it also included entering **keywords** into the ... Erdelez, 1997) as an important **criterion** for browsing, but has not been ...

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RELATION acmabstracts % system @ATTRIBUTE word\_0 REAL % paper ...
... ATTRIBUTE word\_304 REAL % search @ATTRIBUTE word\_305 ... ATTRIBUTE word\_1433 REAL % criterion @ATTRIBUTE word\_1434 ... word\_2066 REAL % keyword @ATTRIBUTE word\_2067 ... physjob.nudl.org/~akrowne/classification/ data/2003-01-20/tf/multicat/acm\_ind\_df\_3000.arff - 101k - Supplemental Result - Cached - Similar pages

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RELATION acmabstracts % system @ATTRIBUTE word 0 REAL % paper ...
... ATTRIBUTE word 385 REAL % search @ATTRIBUTE word 386 ... ATTRIBUTE word 1351 REAL %

criterion @ATTRIBUTE word\_1352 ... word\_2190 REAL % keyword @ATTRIBUTE word\_2191 ... tennessee.cc.vt.edu/~akrowne/citidel/ export/normal\_arff/corr\_ind\_df\_3000.arff - 101k - Supplemental Result -

Cached - Similar pages

RELATION acmabstracts % paper @ATTRIBUTE word \_0 REAL % comput ...
... ATTRIBUTE word \_493 REAL % search @ATTRIBUTE word \_494 ... ATTRIBUTE word \_1196

REAL %

criterion @ATTRIBUTE word\_1197 ... word\_2519 REAL % keyword @ATTRIBUTE word\_2520 ... tennessee.cc.vt.edu/~akrowne/citidel/ export/normal\_arff/corr\_agg\_df\_3000.arff - 101k -

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#### [PDF] is31.logistics.nhs.uk/pls/portal/url/ITEM/1A96A5AD...

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## [PDF] docs.jcu.edu.au/appserver 904 doc/web.904/b12099.pdf

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## [PDF] portalstudio.oracle.com/pls/ops/docs/FOLDER/COMMUN...

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#### [PDF] www.phys.uni.torun.pl/ftp/incoming/duch/Teksty/Sur...

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e-commerce applications also face similar SEARCH and retrieval problems. ...

this score may be presented, along with other available document-attribute ...

access.edgar-online.com/ipo/textSection.asp?cikid=6852& fnid=24826&IPO=0&sec=bd&coname=VER... - 61k -

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#### [PDF] Oracle9

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... 8-7 Using the Score Operator with a Label to Obtain the Relevance ..... ...

8-11 Using Oracle Text to Search XML Documents ...

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#### [PDF] Appendix B ColdFusion Tags

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... cfinclude Flow-control Embeds references to ColdFusion pages. cfindex

Exception handling Creates Verity search indexes. cfinput ...

informit.staging.informit.mttech.com/ content/images/067232279X/downloads/Appendix\_B.pdf - Supplemental

Result - Similar pages

#### [PDF] Aviator Aviator Aviator Aviator Administrator Guide Administrator ...

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Search - Advanced keyword AND attribute searches simplify Access TO files ...

rating Scale. if Users are required TO rate the Document being reviewed with  $\dots$ 

dtasolutions.com/downloads/pdf/adminguide.pdf - Supplemental Result - Similar pages

#### VERITY INC \DE\ - 10-K Annual Report - 05/31/2002

our search technology is designed to enable users to formulate AND refine queries

using a series of information retrieval methods including keyword, ...

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#### [PDF] genie.ucd.ie/~cetus/PhD/NS-thesis-final.pdf

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#### [PDF] CFML Reference

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Page 1. Macromedia® Incorporated CFML Reference ColdFusion 5 Page 2. Copyright

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... 8-6 Using the Score Operator with a Label to Obtain the Relevance ..... ...

8-10 Using Oracle Text to Search XML Documents ...

strogoff.unex.es/oradoc/ form y report 10g/web.904/b12099.pdf - Supplemental Result - Similar pages

#### [PDF] Oracle® Application Server Portal

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... 7-114 7.7.3.7 Setting Search Criteria for a Custom Search ... Defining Separate Portlets for Search Forms and Search Results ... 7-121 7.8.3 Adding Keywords to a Page ...

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#### VideoDB

it is the responsibility OF the search engine AND filter agent to match the query

... the goal score video segment involves the same MOVING regions plus the ...

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2Fmpeg-7.htm - 325k - Supplemental Result - Cached - Similar pages

#### [PDF] media.corporate-ir.net/media files/IROL/83/83460/r...

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## [PDF] <a href="mailto:dps.uibk.ac.at/index.pl/publications?proxiedUrl=ht...">dps.uibk.ac.at/index.pl/publications?proxiedUrl=ht...</a>

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## [PDF] www.boku.ac.at/oradoc/ias/10g(9.0.4)/portal.904/b1...

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#### [PDF] Oracle

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... CONTAINS Example 3: Using the SCORE Operator ..... 5-6 Using

interMedia Text to Search XML Documents ...

www.napali.ch/ora817doc/appdev.817/a86030.pdf - Supplemental Result - Similar pages

## [PS] Python Library Reference Release 2.1.1 Guido van Rossum Fred L ...

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string Common string operations. re Regular expression search and match ...

sorting criteria is now based on keywords (instead of 4 integer options); ...

infohost.nmt.edu/tcc/help/lang/python/lib.ps - Similar pages

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#### [PDF] MPEG-7 Overview

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... The transition between the second and third millennium abounds with new ways to

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mpeg7.nist.gov/mp7a/w4980\_mp7\_Overview1.pdf - Supplemental Result - Similar pages

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combatindex.com/mil docs/pdf/ Hopper/MIL-HDBK/CI-28001-MH-5004-2903.pdf - Supplemental Result -

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## [PDF] https://techsupport.cob.rit.edu/manuals/oracle9i | I...

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#### [PDF] [Chapter 0] Preface

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... Netscape displays empty frames for <frame> tags that do not contain a src document

attribute and for those trailing ones in a frameset that do not have an ...

sichere-welt.de/physik/skripte/WebmasterInANutshell.pdf - Supplemental Result - Similar pages

#### www.ohshe.bs.teu.ac.jp/papers/sci01/Search/Datos31.xml

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## Blaski.com - The Search Portal

Blaski.com - The **Search** Portal. ... while The classical **criteria** such as The one ... that may in Fact be quite appropriate for benchmark. tracking/beating. ... www.blaski.com/ blaski.php?q=%5BPDF%5D+BEATING+THE+BENCHMARKS - Supplemental Result - <u>Similar pages</u>

### [PDF] cvetovete.com/~july/PDF/XML%20Programming/XML%20Bl...

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#### [PDF] reliant.tzo.com/oracle901/appdev.901/a88894.pdf

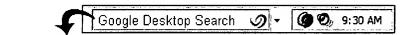
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# (12) United States Patent Goldberg et al.

(10) Patent No.:

US 6,598,046 B1

(45) Date of Patent:

Jul. 22, 2003

#### (54) SYSTEM AND METHOD FOR RETRIEVING DOCUMENTS RESPONSIVE TO A GIVEN USER'S ROLE AND SCENARIO

(75) Inventors: Mottl Goldberg, Denver, CO (US);

Jeffrey D. Kenyon, Boulder, CO (US);

Edwin K. Winkel, Englewood, CO

(US)

(73) Assignee: Qwest Communications International Inc., Denver, CO (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/162,596
(22) Filed: Sep. 29, 1998

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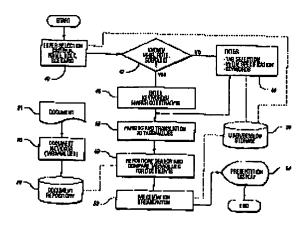
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Primary Examiner—Sricama Channavajjala (74) Autorney, Agent, or Firm—Brooks & Kushman

#### (7) ABSTRACT

A document retrieval and navigational system and method based on a user's role, scenario, and context in a given context or scenario. A database is provided which has a plurality of documents which are stored therein. Each document having metadata defined by at least one predetermined tag and corresponding value which is assigned thereto. Selection criteria is received and corresponds to a user scenario. The received selection criteria is compared to the metadata of each document to determine if there is a document match. In the case that a document match is found, a retrieval report is generated for presentation on the output device which includes each document match.

#### 22 Claims, 8 Drawing Sheets





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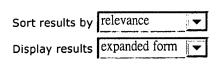


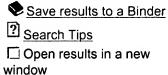
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Terms used search criterion keyword match document score attribute

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1 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems



🏔 M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

**Keywords**: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

2 Paper session IR-1 (information retrieval): XML retrieval: Score region algebra:



building a transparent XML-R database

Vojkan Mihajlović, Henk Ernst Blok, Djoerd Hiemstra, Peter M. G. Apers
October 2005 Proceedings of the 14th ACM international conference on Information
and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(198.00 KB) Additional Information: full citation, abstract, references, index terms

A unified database framework that will enable better comprehension of ranked XML retrieval is still a challenge in the XML database field. We propose a logical algebra, named score region algebra, that enables transparent specification of information retrieval (IR) models for XML databases. The transparency is achieved by a possibility to instantiate various retrieval models, using abstract score functions within algebra operators, while logical query plan and operator definitions remain unchang ...

Keywords: XML, databases, information retrieval, region algebra, structured documents

Document structure and content analysis 2: Schema matching for transforming structured documents





Aida Boukottaya, Christine Vanoirbeek

# November 2005 Proceedings of the 2005 ACM symposium on Document engineering DocEng '05

Publisher: ACM Press

Full text available: 📆 pdf(441.70 KB) Additional Information: full citation, abstract, references, index terms

Structured document content reuse is the problem of restructuring and translating data structured under a source schema into an instance of a target schema. A notion closely tied with structured document reuse is that of structure transformations. Schema matching is a critical strep in structured document transformations. Manual matching is expensive and error-prone. It is therefore important to develop techniques to automate the matching process and thus the transformation process. In this pape ...

**Keywords**: document structure transformations, schema matching

ScentTrails: Integrating browsing and searching on the Web

Christopher Olston, Ed H. Chi

September 2003 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(654.98 KB)

Additional Information: full citation, abstract, references, index terms, review

The two predominant paradigms for finding information on the Web are browsing and keyword searching. While they exhibit complementary advantages, neither paradigm alone is adequate for complex information goals that lend themselves partially to browsing and partially to searching. To integrate browsing and searching smoothly into a single interface, we introduce a novel approach called ScentTrails. Based on the concept of information scent developed in the context of information foraging theory, ...

Keywords: ScentTrails, World Wide Web, browsing, information scent, searching

5 Data integration and data mining: Quality-driven approximate methods for integrating



Ramaswamy Hariharan, Michal Shmueli-Scheuer, Chen Li, Sharad Mehrotra November 2005 Proceedings of the 13th annual ACM international workshop on Geographic information systems GIS '05

Publisher: ACM Press

Full text available: pdf(351.71 KB) Additional Information: full citation, abstract, references, index terms

GIS data distributed in local, state, federal, and private data clearinghouses are being made accessible through the efforts of organizations such as Federal Geographic Data Committee (FGDC) and GeoData.gov. Many database applications, such as disaster management, transportation, and national infrastructure protection, need to access GIS information from such various data sources. In this paper we study how to answer keyword-based spatial queries approximately using information from heterogeneou ...

**Keywords**: GIS data integration, approximate methods, heterogeneous data sources

Multidocument summarization: An added value to clustering in interactive retrieval

Manuel J. Ma鎙-L鏈ez, Manuel De Buenaga, José M. Gómez-Hidalgo

April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Publisher: ACM Press

Full text available:

Additional Information: full citation, abstract, references, index terms,



pdf(199.91 KB)

review

A more and more generalized problem in effective information access is the presence in the same corpus of multiple documents that contain similar information. Generally, users may be interested in locating, for a topic addressed by a group of similar documents, one or several particular aspects. This kind of task, called instance or aspectual retrieval, has been explored in several TREC Interactive Tracks. In this article, we propose in addition to the classification capacity of clustering techn ...

**Keywords**: Multidocument summarization, topic segmentation

7 Paper session 4: XML query processing: Best-match querying from document-centric



<u>XML</u>

Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson

June 2004 Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004 WebDB '04

Publisher: ACM Press

Full text available: pdf(277.47 KB) Additional Information: full citation, abstract, references, citings

On the Web, there is a pervasive use of XML to give lightweight semantics to textual collections. Such document-centric XML collections require a query language that can gracefully handle structural constraints as well as constraints on the free text of the documents. Our main contributions are three-fold. First, we outline two fragments of XPath tailored to users that have varying degrees of understanding of the XML structure used, and give both syntactic and semantic characterizations of these ...

Keywords: XML retrieval, XPath, full-text XML querying

8 Learning to match ontologies on the Semantic Web

AnHai Doan, Jayant Madhavan, Robin Dhamankar, Pedro Domingos, Alon Halevy November 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 4

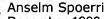
Publisher: Springer-Verlag New York, Inc.

Full text available: 🔁 pdf(263.63 KB) Additional Information: full citation, abstract, index terms

On the Semantic Web, data will inevitably come from many different ontologies, and information processing across ontologies is not possible without knowing the semantic mappings between them. Manually finding such mappings is tedious, error-prone, and clearly not possible on the Web scale. Hence the development of tools to assist in the ontology mapping process is crucial to the success of the Semantic Web. We describe *GLUE*, a system that employs machine learning techniques to find such m ...

Keywords: Machine learning, Ontology matching, Relaxation labeling, Semantic Web

9 InfoCrystal: a visual tool for information retrieval & management



December 1993 Proceedings of the second international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(999.84 KB) Additional Information: full citation, references, citings, index terms

10 A multi-paradigm querying approach for a generic multimedia database management





#### system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang March 2003 ACM SIGMOD Record, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(524.08 KB) Additional Information: full citation, abstract, references, citings

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at Microsoft Research Asia for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

## 11 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell,

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with oneof-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

# 12 Approximate query mapping: Accounting for translation closeness

Kevin Chen-Chuan Chang, Héctor García-Molina

September 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 2-3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(661.19 KB) Additional Information: full citation, abstract, index terms

In this paper we present a mechanism for approximately translating Boolean query constraints across heterogeneous information sources. Achieving the best translation is challenging because sources support different constraints for formulating gueries, and often these constraints cannot be precisely translated. For instance, a query [score>8] might be "perfectly" translated as [rating>0.8] at some site, but can only be approximated as [grade=A] at another. Unlike other work, our ...

Keywords: Approximate query translation, Closeness, Constraint-mapping, Information integration, Mediators

# 13 Data clustering: a review



A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords**: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

14 Extracting relational data from HTML repositories

Ruth Yuee Zhang, Laks V. S. Lakshmanan, Ruben H. Zamar

December 2004 ACM SIGKDD Explorations Newsletter, Volume 6 Issue 2

Publisher: ACM Press

Full text available: 7 pdf(271.48 KB) Additional Information: full citation, abstract, references

There is a vast amount of valuable information in HTML documents, widely distributed across the World Wide Web and across corporate intranets. Unfortunately, HTML is mainly presentation oriented and hard to query. In this paper, we develop a system to extract desired information (records) from thousands of HTML documents, starting from a small set of examples. Duplicates in the result are automatically detected and eliminated. We propose a novel method to estimate the current coverage of results ...

Keywords: coverage estimation, duplication, information extraction, pattern

15 Selected IR-Related Dissertation Abstracts

Susanne M. Humphrey

November 1990 ACM SIGIR Forum, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(2.27 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using Dialog Information Services, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise speci ...

16 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

17 Applications 2: automated multimedia authoring: Automatic generation of

personalized music sports video

Jinjun Wang, Changsheng Xu, Engsiong Chng, Lingyu Duan, Kongwah Wan, Qi Tian

# November 2005 Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05

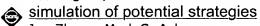
Publisher: ACM Press

Full text available: pdf(633.40 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel automatic approach for personalized music sports video generation. Two research challenges, semantic sports video content selection and automatic video composition, are addressed. For the first challenge, we propose to use multi-modal (audio, video and text) feature analysis and alignment to detect the semantic of events in sports video. For the second challenge, we propose video-centric and music-centric music video composition schemes to automatically generate ...

**Keywords**: automatic video editing, event detection, personalized music sports video, sports video analysis, video content selection

18 Finding expertise and information: Searching for expertise in social networks: a



Jun Zhang, Mark S. Ackerman

November 2005 Proceedings of the 2005 international ACM SIGGROUP conference on Supporting group work GROUP '05

Publisher: ACM Press

Full text available: pdf(1.85 MB) Additional Information: full citation, abstract, references, index terms

People search for people with suitable expertise all of the time in their social networks - to answer questions or provide help. Recently, efforts have been made to augment this searching. However, relatively little is known about the social characteristics of various algorithms that might be useful. In this paper, we examine three families of searching strategies that we believe may be useful in expertise location. We do so through a simulation, based on the Enron email data set. (We would be u ...

**Keywords**: CSCW, computer-supported cooperative work, expertise finding, expertise location, expertise sharing, information seeking, organizational simulations, social computing, social networks

19 Information storage and retrieval: a survey and functional description

A Jack Minker



September 1977 ACM SIGIR Forum, Volume 12 Issue 2

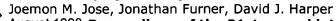
Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, references

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data management, and(3) Question-answering.A functional ...

**Keywords**: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

20 Spatial querying for image retrieval: a user-oriented evaluation



August 1998 Proceedings of the 21st annual international ACM SIGIR conference on

# Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, references, citings, index terms

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Relevance scale

Link-based ranking 2: Searching the workplace web

Ronald Fagin, Ravi Kumar, Kevin S. McCurley, Jasmine Novak, D. Sivakumar, John A. Tomlin, David P. Williamson

May 2003 Proceedings of the 12th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(231.55 KB)

Additional Information: full citation, abstract, references, citings, index terms

The social impact from the World Wide Web cannot be underestimated, but technologies used to build the Web are also revolutionizing the sharing of business and government information within intranets. In many ways the lessons learned from the Internet carry over directly to intranets, but others do not apply. In particular, the social forces that guide the development of intranets are quite different, and the determination of a "good answer" for intranet search is quite different than on the Int ...

22 Database session 7: bioinformatics: Information extraction from biomedical literature:



methodology, evaluation and an application

L. Venkata Subramaniam, Sougata Mukherjea, Pankaj Kankar, Biplav Srivastava, Vishal S. Batra, Pasumarti V. Kamesam, Ravi Kothari

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(261.28 KB)

Additional Information: full citation, abstract, references, citings, index

Journals and conference proceedings represent the dominant mechanisms of reporting new biomedical results. The unstructured nature of such publications makes it difficult to utilize data mining or automated knowledge discovery techniques. Annotation (or markup) of these unstructured documents represents the first step in making these documents machine analyzable. In this paper we first present a system called BioAnnotator for identifying and annotating biological terms in documents. BioAnnotator ...

**Keywords**: biological document processing, information extraction

<sup>23</sup> Parallel free-text search on the connection machine system Craig Stanfill, Brewster Kahle





December 1986 Communications of the ACM, Volume 29 Issue 12

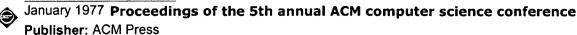
Publisher: ACM Press

Full text available: T pdf(1.04 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A new implementation of free-text search using a new parallel computer—the Connection Machine®—makes possible the application of exhaustive methods not previously feasible for large databases.

24 Conference abstracts



Additional Information: full citation, abstract, index terms Full text available: pdf(3.14 MB)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

Notes Explorer: entity-based retrieval in shared, semi-structured information spaces

Scott Huffman, Catherine Baudin

November 1996 Proceedings of the fifth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(951.75 KB) Additional Information: full citation, references, citings, index terms

Web document clustering: a feasibility demonstration

Oren Zamir, Oren Etzioni

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, references, citings, index terms

27 A semantic-based approach to component retrieval

Vijayan Sugumaran, Veda C. Storey

August 2003 ACM SIGMIS Database, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(367.67 KB)

Additional Information: full citation, abstract, references, citings, index terms

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

**Keywords**: component based development, domain model, ontology, reuse repository, systems development

# 28 Machine learning in automated text categorization



Fabrizio Sebastiani

March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(524.41 KB)

Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

**Keywords**: Machine learning, text categorization, text classification

29 Information retrieval session 8: efficiency: Online duplicate document detection:



signature reliability in a dynamic retrieval environment

Jack G. Conrad, Xi S. Guo, Cindy P. Schriber

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(215.37 KB)

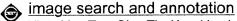
Additional Information: full citation, abstract, references, citings, index

As online document collections continue to expand, both on the Web and in proprietary environments, the need for duplicate detection becomes more critical. Few users wish to retrieve search results consisting of sets of duplicate documents, whether identical duplicates or close matches. Our goal in this work is to investigate the phenomenon and determine one or more approaches that minimize its impact on search results. Recent work has focused on using some form of signature to characterize a do ...

Keywords: data management, doc signatures, duplicate document detection

30 Oral session 2: web searching and applications: Similarity space projection for web





Ying Liu, Tao Qin, Tie-Yan Liu, Lei Zhang, Wei-Ying Ma

November 2005 Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05

**Publisher: ACM Press** 

Full text available: pdf(589.39 KB) Additional Information: full citation, abstract, references, index terms

Web image search has been explored and developed in academic as well as commercial areas for over a decade. To measure the similarity between Web images and user queries, most of the existing Web image search systems try to convert an image to textual keywords by analyzing the textual information available (such as surrounding text and image filename) with or without leveraging image visual features (such as color, texture, shape). In this way, the existing systems transform "Web images" to the ...

Keywords: image annotation, similarity space projection, web image search

31 Special issue on ICML: Coupled clustering: a method for detecting structural correspondence



Zvika Marx, Ido Dagan, Joachim M. Buhmann, Eli Shamir

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: The pdf (967.15 KB) Additional Information: full citation, abstract, citings, index terms

This paper proposes a new paradigm and a computational framework for revealing equivalencies (analogies) between sub-structures of distinct composite systems that are initially represented by unstructured data sets. For this purpose, we introduce and investigate a variant of traditional data clustering, termed coupled clustering, which outputs a configuration of corresponding subsets of two such representative sets. We apply our method to synthetic as well as textual data. Its achievement ...

32 Supporting efficient multimedia database exploration

Wen-Syan Li, K.Selçuk Candan, Kyoji Hirata, Yoshinori Hara

April 2001 The VLDB Journal — The International Journal on Very Large Data Bases,

Volume 9 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(569.30 KB) Additional Information: full citation, abstract, index terms

Due to the fuzziness of query specification and media matching, multimedia retrieval is conducted by way of exploration. It is essential to provide feedback so that users can visualize query reformulation alternatives and database content distribution. Since media matching is an expensive task, another issue is how to efficiently support exploration so that the system is not overloaded by perpetual query reformulation. In this paper, we present a uniform framework to represent statistical inform ...

Keywords: Exploration, Human computer interaction, Multimedia database, Progressive processing, Query relaxation, Selectivity statistics

33 Effect of different network analysis strategies on search engine re-ranking

Behnak Yaltaghian, Mark H. Chignell

October 2004 Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Additional Information: full citation, abstract, references, index terms

The research described in this paper examined two different approaches to building the co-citation network that the authors have used in re-ranking the set of results returned by a search engine [22, 23]. The more computationally demanding (in terms of query load) Inter- or Web-wide co-citation approach used in-links from throughout the Web to build the network. In contrast, the Intra co-citation approach only used inlinks inferred from search engine output. Results of this study confirmed th ...

34 Constructing multi-granular and topic-focused web site maps

Wen-Syan Li, Necip Fazil Ayan, Okan Kolak, Quoc Vu, Hajime Takano, Hisashi Shimamura April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(3.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: decision tree algorithm, logical domain, multi-granularity, site map, topic distillation

35 Fast multiresolution image guerying Charles E. Jacobs, Adam Finkelstein, David H. Salesin



September 1995 Proceedings of the 22nd annual conference on Computer graphics and interactive techniques

**Publisher: ACM Press** 

Full text available: pdf(529.14 KB) ps(211.52 KB)

Additional Information: full citation, references, citings, index terms

Keywords: content-based retrieval, image databases, image indexing, image metrics, query by content, query by example, similarity retrieval, sketch retrieval, wavelets

36 Applying summarization techniques for term selection in relevance feedback

Adenike M. Lam-Adesina, Gareth J. F. Jones

September 2001 Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(253.28 KB)

Query-expansion is an effective Relevance Feedback technique for improving performance in Information Retrieval. In general query-expansion methods select terms from the complete contents of relevant documents. One problem with this approach is that expansion terms unrelated to document relevance can be introduced into the modified query due to their presence in the relevant documents and distribution in the document collection. Motivated by the hypothesis that query-expansion terms should ...

37 Research track papers: Probabilistic author-topic models for information discovery

Mark Steyvers, Padhraic Smyth, Michal Rosen-Zvi, Thomas Griffiths

August 2004 Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Full text available: pdf(323.72 KB) Additional Information: full citation, abstract, references, index terms

We propose a new unsupervised learning technique for extracting information from large text collections. We model documents as if they were generated by a two-stage stochastic process. Each author is represented by a probability distribution over topics, and each topic is represented as a probability distribution over words for that topic. The words in a multi-author paper are assumed to be the result of a mixture of each authors' topic mixture. The topic-word and author-topic distributions are ...

**Keywords**: Gibbs sampling, text modeling, unsupervised learning

38 Evaluating topic-driven web crawlers

Filippo Menczer, Gautam Pant, Padmini Srinivasan, Miguel E. Ruiz

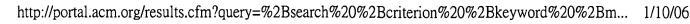
September 2001 Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(210.09 KB)

Additional Information: full citation, abstract, references, citings, index terms

Due to limited bandwidth, storage, and computational resources, and to the dynamic nature of the Web, search engines cannot index every Web page, and even the covered portion of the Web cannot be monitored continuously for changes. Therefore it is essential to develop effective crawling strategies to prioritize the pages to be indexed. The issue is even more important for topic-specific search engines, where crawlers must make additional decisions based on the relevance of visited pages. ...



Keywords: InfoSpiders, PageRank, Web information retrieval, best-first search, focused crawlers, performance metrics, topic driven crawling

39 Maintenance and evolution: UMLDiff: an algorithm for object-oriented design.



differencing

Zhenchang Xing, Eleni Stroulia

November 2005 Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05

Publisher: ACM Press

Full text available: pdf(287.60 KB) Additional Information: full citation, abstract, references, index terms

This paper presents UMLDiff, an algorithm for automatically detecting structural changes between the designs of subsequent versions of object-oriented software. It takes as input two class models of a Java software system, reverse engineered from two corresponding code versions. It produces as output a change tree, i.e., a tree of structural changes, that reports the differences between the two design versions in terms of (a) additions, removals, moves, renamings of packages, classes, interfaces ...

Keywords: design differencing, design mentoring, design understanding, structural evolution

40 Question answering: Question answering passage retrieval using dependency



elations relations

Hang Cui, Renxu Sun, Keya Li, Min-Yen Kan, Tat-Seng Chua

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: pdf(304.92 KB) Additional Information: full citation, abstract, references, index terms

State-of-the-art question answering (QA) systems employ term-density ranking to retrieve answer passages. Such methods often retrieve incorrect passages as relationships among question terms are not considered. Previous studies attempted to address this problem by matching dependency relations between questions and answers. They used strict matching, which fails when semantically equivalent relationships are phrased differently. We propose fuzzy relation matching based on statistical models. We ...

**Keywords**: dependency parsing, passage retrieval, question answering

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Relevance scale

41 Global digital museum: multimedia information access and creation on the Internet



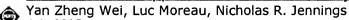
Junichi Takahashi, Takayuki Kushida, Jung-Kook Hong, Shigeharu Sugita, Yasuyuki Kurita, Robert Rieger, Wendy Martin, Geri Gay, John Reeve, Rowena Loverance

May 1998 Proceedings of the third ACM conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, references, citings, index terms

42 A market-based approach to recommender systems



July 2005 ACM Transactions on Information Systems (TOIS), Volume 23 Issue 3

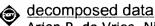
Publisher: ACM Press

Full text available: pdf(2.06 MB) Additional Information: full citation, abstract, references, index terms

Recommender systems have been widely advocated as a way of coping with the problem of information overload for knowledge workers. Given this, multiple recommendation methods have been developed. However, it has been shown that no one technique is best for all users in all situations. Thus we believe that effective recommender systems should incorporate a wide variety of such techniques and that some form of overarching framework should be put in place to coordinate the various recommendations so ...

**Keywords**: Recommender systems, auctions, marketplace

43 Research sessions: query processing II: Efficient k-NN search on vertically



Arjen P. de Vries, Nikos Mamoulis, Niels Nes, Martin Kersten

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, index terms

Applications like multimedia retrieval require efficient support for similarity search on large data collections. Yet, nearest neighbor search is a difficult problem in high dimensional spaces, rendering efficient applications hard to realize: index structures degrade rapidly with increasing dimensionality, while sequential search is not an attractive solution for repositories with millions of objects. This paper approaches the problem from a different angle. A solution is sought in an unconvent ...

Web search 2: A study of relevance propagation for web search

Tao Qin, Tie-Yan Liu, Xu-Dong Zhang, Zheng Chen, Wei-Ying Ma

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: 📆 pdf(391.03 KB) Additional Information: full citation, abstract, references, index terms

Different from traditional information retrieval, both content and structure are critical to the success of Web information retrieval. In recent years, many relevance propagation techniques have been proposed to propagate content information between web pages through web structure to improve the performance of web search. In this paper, we first propose a generic relevance propagation framework, and then provide a comparison study on the effectiveness and efficiency of various representative pro ...

Keywords: hyperlink based score propagation, hyperlink based term propagation, relevance propagation, sitemap based score propagation, sitemap based term propagation

45 Special issue on special feature: An introduction to variable and feature selection

Isabelle Guyon, André Elisseeff

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: pdf(862.82 KB) Additional Information: full citation, abstract, citings, index terms

Variable and feature selection have become the focus of much research in areas of application for which datasets with tens or hundreds of thousands of variables are available. These areas include text processing of internet documents, gene expression array analysis, and combinatorial chemistry. The objective of variable selection is threefold: improving the prediction performance of the predictors, providing faster and more cost-effective predictors, and providing a better understanding of the ...

46 Information retrieval algorithms: a survey

Prabhakar Raghavan

January 1997 Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(908.76 KB) Additional Information: full citation, references, citings, index terms

47 Scalable algorithms for mining large databases

Rajeev Rastogi, Kyuseok Shim

August 1999 Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(4.11 MB) Additional Information: full citation, references, citings, index terms

48 Cross-language: Bootstrapping dictionaries for cross-language information retrieval

Kornél Markó, Stefan Schulz, Olena Medelyan, Udo Hahn

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on

#### Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: pdf(130.96 KB) Additional Information: full citation, abstract, references, index terms

The bottleneck for dictionary-based cross-language information retrieval is the lack of comprehensive dictionaries, in particular for many different languages. We here introduce a methodology by which multilingual dictionaries (for Spanish and Swedish) emerge automatically from simple seed lexicons. These seed lexicons are automatically generated, by cognate mapping, from (previously manually constructed) Portuguese and German as well as English sources. Lexical and semantic hypotheses are then ...

Keywords: cross-language information retrieval, lexical acquisition

49 Selected IR-Related Dissertation Abstracts

May 1991 ACM SIGIR Forum, Volume 25 Issue 1

Publisher: ACM Press

Full text available: R pdf(2.71 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

50 Hypertext for the electronic library?: CORE sample results

Dennis E. Egan, Michael E. Lesk, R. Daniel Ketchum, Carol C. Lochbaum, Joel R. Remde, Michael Littman, Thomas K. Landauer

September 1991 Proceedings of the third annual ACM conference on Hypertext

Publisher: ACM Press

Full text available: pdf(1.30 MB) Additional Information: full citation, references, citings, index terms

**Keywords**: hypertext design, information retrieval

51 Content awareness in a file system interface: implementing the "pile" metaphor for organizing information

Daniel E. Rose, Richard Mander, Tim Oren, Dulce B. Poncéleon, Gitt Salomon, Yin Yin Wong July 1993 Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(906.87 KB) terms

The pile is a new element of the desktop user interface metaphor, designed to support the casual organization of documents. An interface design based on the pile concept suggested uses of content awareness for describing, organizing, and filing textual documents. We describe a prototype implementation of these capabilities, and give a detailed example of how they might appear to the user. We believe the system demonstrates how content awareness can be not only used in a computer filing syst ...

52 Special issue on on inductive logic programming: Learning semantic lexicons from a part-of-speech and semantically tagged corpus using inductive logic programming Vincent Claveau, Pascale Sébillot, Cécile Fabre, Pierrette Bouillon



December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(215.86 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an inductive logic programming learning method designed to acquire from a corpus specific Noun-Verb (N-V) pairs---relevant in information retrieval applications to perform index expansion---in order to build up semantic lexicons based on Pustejovsky's generative lexicon (GL) principles (Pustejovsky, 1995). In one of the components of this lexical model, called the <em>qualia structure</em>, words are described in terms of semantic roles. For example, the <em&g ...

53 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam August 2001 The VLDB Journal — The International Journal on Very Large Data

Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(355.19 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

54 Abstracting of legal cases: the SALOMON experience

Marie-Francine Moens, Caroline Uyttendaele, Jos Dumortier

June 1997 Proceedings of the 6th international conference on Artificial intelligence and law

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms

55 Capturing, indexing, clustering, and retrieving system history

Ira Cohen, Steve Zhang, Moises Goldszmidt, Julie Symons, Terence Kelly, Armando Fox October 2005 ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue

Publisher: ACM Press

Full text available: pdf(516.41 KB) Additional Information: full citation, abstract, references, index terms

We present a method for automatically extracting from a running system an indexable signature that distills the essential characteristic from a system state and that can be subjected to automated clustering and similarity-based retrieval to identify when an observed system state is similar to a previously-observed state. This allows operators to identify and quantify the frequency of recurrent problems, to leverage previous diagnostic efforts, and to establish whether problems seen at dif ...

Keywords: bayesian networks, clustering, information retrieval, performance objectives, signatures

56 Structure and transformation of documents: Simple and accurate feature selection for



hierarchical categorisation

Wahyu Wibowo, Hugh E. Williams

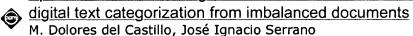
November 2002 Proceedings of the 2002 ACM symposium on Document engineering Publisher: ACM Press

Full text available: pdf(161.40 KB) Additional Information: full citation, abstract, references, index terms

Categorisation of digital documents is useful for organisation and retrieval. While document categories can be a set of unstructured category labels, some document categories are hierarchically structured. This paper investigates automatic hierarchical categorisation and, specifically, the role of features in the development of more effective categorisers. We show that a good hierarchical machine learning-based categoriser can be developed using small numbers of features from pre-categorised tra ...

Keywords: categorisation, error reduction, hierarchical categorisation, web hierarchies

57 Special issue on learning from imbalanced datasets: A multistrategy approach for



June 2004 ACM SIGKDD Explorations Newsletter, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(338.63 KB) Additional Information: full citation, abstract, references, citings

The goal of the research described here is to develop a multistrategy classifier system that can be used for document categorization. The system automatically discovers classification patterns by applying several empirical learning methods to different representations for preclassified documents belonging to an imbalanced sample. The learners work in a parallel manner, where each learner carries out its own feature selection based on evolutionary techniques and then obtains a classification mode ...

**Keywords**: feature selection, genetic algorithms, multistrategy learning

58 Multimedia: Boosted decision trees for word recognition in handwritten document



Nicholas R. Howe, Toni M. Rath, R. Manmatha

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: pdf(170.01 KB) Additional Information: full citation, abstract, references, index terms

Recognition and retrieval of historical handwritten material is an unsolved problem. We propose a novel approach to recognizing and retrieving handwritten manuscripts, based upon word image classification as a key step. Decision trees with normalized pixels as features form the basis of a highly accurate AdaBoost classifier, trained on a corpus of word images that have been resized and sampled at a pyramid of resolutions. To stem problems from the highly skewed distribution of class frequencies, ...

**Keywords**: adaboost, decision theory, handwriting retrieval, historical manuscripts

<sup>59</sup> Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka November 2004 ACM SIGMIS Database, Volume 35 Issue 4

**Publisher: ACM Press** 





Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

**Keywords**: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

60 Research track papers: Mining the space of graph properties

Glen Jeh, Jennifer Widom

August 2004 Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Full text available: pdf(255.01 KB) Additional Information: full citation, abstract, references, index terms

Existing data mining algorithms on graphs look for nodes satisfying specific properties, such as specific notions of structural similarity or specific measures of link-based importance. While such analyses for predetermined properties can be effective in wellunderstood domains, sometimes identifying an appropriate property for analysis can be a challenge, and focusing on a single property may neglect other important aspects of the data. In this paper, we develop a foundation for mining the prop ...

Keywords: data mining, graph mining

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61 Internet and WWW-based systems: High performance crawling system

Younès Hafri, Chabane Djeraba

October 2004 Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval

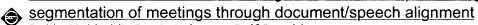
Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, index terms

In the present paper, we will describe the design and implementation of a real-time distributed system of Web crawling running on a cluster of machines. The system crawls several thousands of pages every second, includes a high-performance fault manager, is platform independent and is able to adapt transparently to a wide range of configurations without incurring additional hardware expenditure. We will then provide details of the system architecture and describe the technical choices for ver ...

**Keywords**: hierarchical cooperation, high availability system, web crawler

62 Technical session 10: watermarking and multi-media processing: Thematic



Dalila Mekhaldi, Denis Lalanne, Rolf Ingold

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(917.84 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This article proposes a multimodal approach for segmenting meeting recordings. This bimodal method takes advantages of the alignment of speech transcript with documents, in the context of meetings or lectures, where documents are discussed. The method first displays the alignment results as a set of nodes in a 2D space, where the two axes represent respectively the documents content and the speech transcript. The most connected regions in this graph are detected using a clustering method. Th ...

**Keywords**: clustering techniques, document analysis, meeting dialogs structuring, multimedia information retrieval, multimodal thematic alignment, thematic segmentation



#### The effect of expertise on software selection

Dennis Galletta, Ruth C. King, Dina Rateb

May 1993 ACM SIGMIS Database, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, index terms

Selection of hardware and software is a complicated task involving the consideration of multiple criteria decision making (MCDM) as well as the expertise of the decision maker. Two MCDM studies examined whether or not expertise in database management systems (DBMS) would facilitate selection among DBMS alternatives. The results of the first study suggest that (I) experts seemed to exhibit more agreement on criterion weights than did novices, (2) experts were about twice as consistent in applying ...

64 KM-3 (knowledge management): knowledge extraction: Node ranking in labeled



directed graphs

Krishna P. Chitrapura, Srinivas R. Kashyap

November 2004 Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04

Publisher: ACM Press

Full text available: pdf(447.39 KB) Additional Information: full citation, abstract, references, index terms

Our work is motivated by the problem of ranking hyper-linked documents for a given query. Given an arbitrary directed graph with edge and node labels, we present a new flow-based model and an efficient method to dynamically rank the nodes of this graph with respect to any of the original labels. Ranking documents for a given guery in a hyper-linked document set and ranking of authors/articles for a given topic in a citation database are some typical applications of our method. We outline the ...

Keywords: citation graph, context-sensitive ranking, flow-based, intranet search, link structure, model, pagerank, random surfer model, search, search in context, web graph

65 Personalizing E-commerce applications with on-line heuristic decision making



Vinod Anupam, Richard Hull, Bharat Kumar

April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: 🔁 pdf(261.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: B2C E-commerce, personalization, pro-active intervention, vortex rules system

66 Theory 2: Linear discriminant model for information retrieval



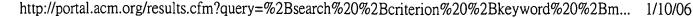
Jianfeng Gao, Haoliang Qi, Xinsong Xia, Jian-Yun Nie

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

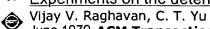
Full text available: pdf(532.96 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a new discriminative model for information retrieval (IR), referred to as linear discriminant model (LDM), which provides a flexible framework to incorporate arbitrary features. LDM is different from most existing models in that it takes into account a variety of linguistic features that are derived from the component models of HMM that is widely used in language modeling approaches to IR. Therefore, LDM is a means of melding discriminative and generative models for IR. We pr ...



**Keywords**: discriminative training, hidden Markov model, language model, optimization, perceptron

67 Experiments on the determination of the relationships between terms



June 1979 ACM Transactions on Database Systems (TODS), Volume 4 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(1.52 MB)

Additional Information: full citation, abstract, references, citings, index

terms

The retrieval effectiveness of an automatic method that uses relevance judgments for the determination of positive as well as negative relationships between terms is evaluated. The term relationships are incorporated into the retrieval process by using a generalized similarity function that has a term match component, a positive term relationship component, and a negative term relationship component. Two strategies, query partitioning and query clustering, for the evaluation of the effectiv ...

**Keywords**: antonym, document retrieval, feedback, pseudoclassification, semantics. statistical discrimination, synonym, term associations, thesaurus

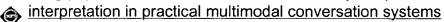
68 Systems: MITRE: description of the Alembic system used for MUC-6 John Aberdeen, John Burger, David Day, Lynette Hirschman, Patricia Robinson, Marc Vilain November 1993 Proceedings of the 6th conference on Message understanding MUC6

Publisher: Association for Computational Linguistics

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references

As with several other veteran MUC participants, MITRE's Alembic system has undergone a major transformation in the past two years. The genesis of this transformation occurred during a dinner conversation at the last MUC conference, MUC-5. At that time, several of us reluctantly admitted that our major impediment towards improved performance was reliance on then-standard linguistic models of syntax. We knew we would need an alternative to traditional linguistic grammars, even to the somewh ...

69 Long papers: multimodal interaction: Two-way adaptation for robust input



Shimei Pan, Siwei Shen, Michelle X. Zhou, Keith Houck

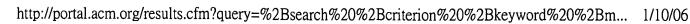
January 2005 Proceedings of the 10th international conference on Intelligent user interfaces

Publisher: ACM Press

Full text available: pdf(666.70 KB) Additional Information: full citation, abstract, references, index terms

Multimodal conversation systems allow users to interact with computers effectively using multiple modalities, such as natural language and gesture. However, these systems have not been widely used in practical applications mainly due to their limited input understanding capability. As a result, conversation systems often fail to understand user requests and leave users frustrated. To address this issue, most existing approaches focus on improving a system's interpretation capability. Nonetheless ...

Keywords: adaptive systems, context-sensitive help, intelligent multimodal interfaces, multimodal input interpretation, natural language understanding, robust input interpretation



70 Clustering: ReCoM: reinforcement clustering of multi-type interrelated data objects



Jidong Wang, Huajun Zeng, Zheng Chen, Hongjun Lu, Li Tao, Wei-Ying Ma July 2003 Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval

Publisher: ACM Press

Full text available: pdf(204.94 KB)

Additional Information: full citation, abstract, references, citings, index

Most existing clustering algorithms cluster highly related data objects such as Web pages and Web users separately. The interrelation among different types of data objects is either not considered, or represented by a static feature space and treated in the same ways as other attributes of the objects. In this paper, we propose a novel clustering approach for clustering multi-type interrelated data objects, ReCoM (Reinforcement Clustering of Multi-type Interrelated data objects). Under this appr ...

**Keywords**: clustering, interrelated, multi-type, reinforcement

71 Development of a measure to assess the quality of user-developed applications



Suzanne Rivard, Guylaine Poirier, Louis Raymond, François Bergeron June 1997 ACM SIGMIS Database, Volume 28 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, citings, index terms Full text available: pdf(1.15 MB)

For several years now, software quality has been a major concern for those involved in the area of software engineering, and researchers as well as practitioners of the domain have proposed instruments to measure it. Application quality is also a concern for researchers and managers involved in the area of end-user computing. However, since end-user computing research is in a much earlier stage than research in software engineering, relatively few efforts have been made to assess the quality of ...

Keywords: end-user computing, quality measurement, system quality, user development

72 Scatter/gather browsing communicates the topic structure of a very large text



collection

Peter Pirolli, Patricia Schank, Marti Hearst, Christine Diehl

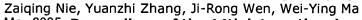
April 1996 Proceedings of the SIGCHI conference on Human factors in computing systems: common ground

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms html(47.35 KB)

**Keywords**: Scatter/Gather, browsing, clustering, information retrieval

73 Link-based ranking: Object-level ranking: bringing order to Web objects

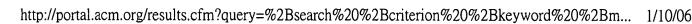


May 2005 Proceedings of the 14th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(888.25 KB) Additional Information: full citation, abstract, references, index terms

In contrast with the current Web search methods that essentially do document-level ranking and retrieval, we are exploring a new paradigm to enable Web search at the



object level. We collect Web information for objects relevant for a specific application domain and rank these objects in terms of their relevance and popularity to answer user queries. Traditional PageRank model is no longer valid for object popularity calculation because of the existence of heterogeneous relationships between obje ...

Keywords: PageRank, PopRank, Web information retrieval, Web objects, link analysis

74 Toward a unified approach to statistical language modeling for Chinese

Jianfeng Gao, Joshua Goodman, Mingjing Li, Kai-Fu Lee

March 2002 ACM Transactions on Asian Language Information Processing (TALIP), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.19 MB)

Additional Information: full citation, abstract, references, citings, index terms

This article presents a unified approach to Chinese statistical language modeling (SLM). Applying SLM techniques like trigram language models to Chinese is challenging because (1) there is no standard definition of words in Chinese; (2) word boundaries are not marked by spaces; and (3) there is a dearth of training data. Our unified approach automatically and consistently gathers a high-quality training data set from the Web, creates a high-quality lexicon, segments the training data using this ...

Keywords: Chinese language, Chinese pinyin-to-character conversion, backoff, character error rate, domain adaptation, lexicon, n-gram model, perplexity, pruning, smoothing, statistical language modeling, word segmentation

75 Supporting top-*k join* queries in relational databases

F. Ilyas, G. Aref, K. Elmagarmid

September 2004 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(317.70 KB) Additional Information: full citation, abstract, index terms

Ranking queries, also known as top-k queries, produce results that are ordered on some computed score. Typically, these queries involve joins, where users are usually interested only in the top-k join results. Top-k queries are dominant in many emerging applications, e.g., multimedia retrieval by content, Web databases, data mining, middlewares, and most information retrieval applications. Current relational query processors do not handle ranking queries efficiently, especia ...

**Keywords**: Query operators, Rank aggregarion, Ranking, Top-k queries

76 Web search 1: Using ODP metadata to personalize search

Paul Alexandru Chirita, Wolfgang Nejdl, Raluca Paiu, Christian Kohlschütter August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: 🔁 pdf(310.29 KB) Additional Information: full citation, abstract, references, index terms

The Open Directory Project is clearly one of the largest collaborative efforts to manually annotate web pages. This effort involves over 65,000 editors and resulted in metadata specifying topic and importance for more than 4 million web pages. Still, given that this number is just about 0.05 percent of the Web pages indexed by Google, is this effort enough to make a difference? In this paper we discuss how these metadata can be exploited to achieve high quality personalized web search. First, we ...

**Keywords**: biased pageRank, metadata, open directory, personalized search

77 Paper session IR-2 (information retrieval): question answering: Retrieving answers from frequently asked questions pages on the web



Valentin Jijkoun, Maarten de Rijke

October 2005 Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(233.07 KB) Additional Information: full citation, abstract, references, index terms

We address the task of answering natural language questions by using the large number of Frequently Asked Questions (FAQ) pages available on the web. The task involves three steps: (1) fetching FAQ pages from the web; (2) automatic extraction of question/answer (Q/A) pairs from the collected pages; and (3) answering users' questions by retrieving appropriate Q/A pairs. We discuss our solutions for each of the three tasks, and give detailed evaluation results on a collected corpus of about 3.6Gb ...

**Keywords**: FAQ retrieval, question answering, questions beyond factoids

78 A semi-supervised document clustering technique for information organization



Han-Joon Kim, Sang-Goo Lee

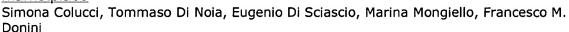
November 2000 Proceedings of the ninth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(261.40 KB) Additional Information: full citation, references, citings, index terms

Keywords: agglomerative hierarchical clustering, document clustering, fuzzy information retrieval, information organization, relevance feedback

79 Semantics, ontologies & enterprise integration track: Concept abduction and contraction for semantic-based discovery of matches and negotiation spaces in an emarketplace



March 2004 Proceedings of the 6th international conference on Electronic commerce **ICEC '04** 

Publisher: ACM Press

Full text available: 📆 <a href="https://pdf/495.44">pdf(495.44</a> KB) Additional Information: <a href="full-text-available: Total decirition">full citation</a>, <a href="mailto:abstract">abstract</a>, <a href="full-text-available: Total decirition">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:abstract">full-citation</a>, <a href="mailto:abstract">abstract</a>, <a href="mailto:

In this paper we present a Description Logic approach to extended matchmaking between Demands and Supplies in an Electronic Marketplace, which allows the semantic-based treatment of negotiable and strict requirements in the description. To this aim we exploit two novel non-standard Description Logic inference services, Concept Contraction -which extends satisfiability-and Concept Abduction -which extends subsumption. Based on these services we devise algorithms to find negotiation spaces and to de ...

**Keywords**: concept abduction, concept contraction, description logics, e-commerce, matchmaking, negotiable constraints, semantic web



# Supporting activities: Proactive support for the organization of shared workspaces using activity patterns and content analysis



Wolfgang Prinz, Baber Zaman

November 2005 Proceedings of the 2005 international ACM SIGGROUP conference on Supporting group work GROUP '05

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Shared workspace systems provide virtual places for self-organized and semi-structured cooperation between local and distributed team members. These cooperation systems have been adopted by a large community over the past years and the volume of managed information is increasing rapidly. However, a problem that occurs frequently is the missing user support for the workspace organization and a lack of assistance finding the right place for storing new documents and contributions. This often resul ...

Keywords: awareness, content categorization for shared workspaces, noise detection for shared workspaces, office and workplace, semantic web for shared workspaces, shared workspaces, similar documents search, social computing and social navigation

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Relevance scale

81 Tree induction vs. logistic regression: a learning-curve analysis

Claudia Perlich, Foster Provost, Jeffrey S. Simonoff

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(263.37 KB)

Additional Information: full citation, abstract, references, citings, index

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

82 A survey on wavelet applications in data mining



Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

83 Text categorization for multiple users based on semantic features from a machine-



readable dictionary

Elizabeth D. Liddy, Woojin Paik, Edmund S. Yu

July 1994 ACM Transactions on Information Systems (TOIS), Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(1.17 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The text categorization module described here provides a front-end filtering function for the larger DR-LINK text retrieval system [Liddy and Myaeing 1993]. The model evaluates

a large incoming stream of documents to determine which documents are sufficiently similar to a profile at the broad subject level to warrant more refined representation and matching. To accomplish this task, each substantive word in a text is first categorized using a feature set based on the semantic Subject Field ...

**Keywords**: semantic vectors, subject field coding

84 Full Technical Papers: Learning implicit user interest hierarchy for context in





personalization

Hyoung R. Kim, Philip K. Chan

January 2003 Proceedings of the 8th international conference on Intelligent user interfaces

Publisher: ACM Press

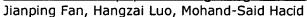
Full text available: pdf(191.53 KB)

Additional Information: full citation, abstract, references, citings, index

To provide a more robust context for personalization, we desire to extract a continuum of general (long-term) to specific (short-term) interests of a user. Our proposed approach is to learn a user interest hierarchy (UIH) from a set of web pages visited by a user. We devise a divisive hierarchical clustering (DHC) algorithm to group words (topics) into a hierarchy where more general interests are represented by a larger set of words. Each web page can then be assigned to nodes in the hierarchy f ...

**Keywords**: clustering algorithm, concept clustering, user interest hierarchy, user profile

85 Research track paper: Mining images on semantics via statistical learning



August 2005 Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05

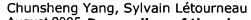
Publisher: ACM Press

Full text available: pdf(817.66 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we have proposed a novel framework to enable hierarchical image classification via statistical learning. By integrating the concept hierarchy for semantic image concept organization, a hierarchical mixture model is proposed to enable multilevel modeling of semantic image concepts and hierarchical classifier combination. Thus, learning the classifiers for the semantic image concepts at the high level of the concept hierarchy can be effectively achieved by detecting t ...

Keywords: adaptive EM algorithm, hierarchical mixture model, image classification

86 Industry/government track paper: Learning to predict train wheel failures

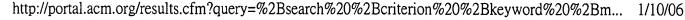


August 2005 Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a successful but challenging application of data mining in the railway industry. The objective is to optimize maintenance and operation of trains through prognostics of wheel failures. In addition to reducing maintenance costs, the proposed technology will help improve railway safety and augment throughput. Building on established techniques from data mining and machine learning, we present a methodology to learn models to predict train wheel failures from readily available ...



**Keywords**: data mining, machine learning, methodology, model building, model evaluation, model fusion, wheel failure prediction

87 Tools & techniques track: browsing and visualizing collections: An initial evaluation of automated organization for digital library browsing



Aaron Krowne, Martin Halbert

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(243.36 KB) Additional Information: full citation, abstract, references, index terms

In this article we present an evaluation of text clustering and classification methods for creating digital library browse interfaces, focusing on the particular case of collections made up of heterogeneous metadata records. This situation is common in "portal" style digital libraries, which are built by harvesting content from many disparate sources, typically using the Open Archives Protocol for Metadata Harvesting (OAI-PMH). By studying the activity of users in an experimental system, we find ...

Keywords: NMF, browsing, categorization, classification, clustering, digital libraries, harvesting, portals, taxonomies

The FINITE STRING newsletter: Abstracts of current literature

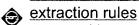
American Journal of Computational Linguistics Staff April 1983 Computational Linguistics, Volume 9 Issue 2

Publisher: MIT Press

Full text available: pdf(2.03 MB) Additional Information: full citation

Publisher Site

89 A framework for specifying explicit bias for revision of approximate information



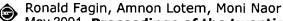
Ronen Feldman, Yair Liberzon, Binyamin Rosenfeld, Jonathan Schler, Jonathan Stoppi August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(173.48 KB) Additional Information: full citation, references, citings, index terms

Keywords: information extraction, text mining, theory revision, user guided revision

90 Optimal aggregation algorithms for middleware



May 2001 Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(231.47 KB) terms

Assume that each object in a database has m grades, or scores, one for each of mattributes. For example, an object can have a color grade, that tells how red it is, and a shape grade, that tells how round it is. For each attribute, there is a sorted list, which lists each object and its grade under that attribute, sorted by grade (highest grade first). There is some monotone aggregation function, or combining rule, such as min or average, that combines the individ ...

91 Large Margin Methods for Structured and Interdependent Output Variables Ioannis Tsochantaridis, Thorsten Joachims, Thomas Hofmann, Yasemin Altun September 2005 The Journal of Machine Learning Research, Volume 6



Publisher: MIT Press

Full text available: 🔁 pdf(240.67 KB) Additional Information: full citation, abstract

Learning general functional dependencies between arbitrary input and output spaces is one of the key challenges in computational intelligence. While recent progress in machine learning has mainly focused on designing flexible and powerful input representations, this paper addresses the complementary issue of designing classification algorithms that can deal with more complex outputs, such as trees, sequences, or sets. More generally, we consider problems involving multiple dependent output varia ...

92 Long papers: visualization and presentation: A graph-matching approach to dynamic



media allocation in intelligent multimedia interfaces Michelle X. Zhou, Zhen Wen, Vikram Aggarwal

January 2005 Proceedings of the 10th international conference on Intelligent user interfaces

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, index terms

To aid users in exploring large and complex data sets, we are building an intelligent multimedia conversation system. Given a user request, our system dynamically creates a multimedia response that is tailored to the interaction context. In this paper, we focus on the problem of media allocation, a process that assigns one or more media, such as graphics or speech, to best convey the intended response content. Specifically, we develop a graph-matching approach to media allocation, whose goal is ...

Keywords: automated generation of multimedia presentations, intelligent multimedia interfaces, media allocation

93 Multi Relational Data Mining (MRDM): Probabilistic logic learning



Luc De Raedt, Kristian Kersting

July 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings Full text available: pdf(1.98 MB)

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-ofthe-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational data mining, probabilistic reasoning, uncertainty

94 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory November 2000 ACM Transactions on Information and System Security (TISSEC),



Volume 3 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(156.16 KB) terms, review

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number of issues associated with its design and execution that remain unsettled. Some methodologies used in the evaluation are questionable and may have biased its results. One problem is that the evaluators have published relatively little concer ...

**Keywords**: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

95 The Anti-Mac interface

Don Gentner, Jakob Nielsen

August 1996 Communications of the ACM, Volume 39 Issue 8

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms, Full text available: pdf(365.38 KB) review

96 Motion recovery for video content classification

Nevenka Dimitrova, Forouzan Golshani

October 1995 ACM Transactions on Information Systems (TOIS), Volume 13 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.74 MB) terms

Like other types of digital information, video sequences must be classified based on the semantics of their contents. A more-precise and completer extraction of semantic information will result in a more-effective classification. The most-discernible difference between still images and moving pictures stems from movements and variations. Thus, to go from the realm of still-image repositories to video databases, we must be able to deal with motion. Particularly, we need the ability to classi ...

Keywords: MPEG compressed video analysis, content-based retrieval of video, motion recovery, video databases, video retrieval

97 Industry track session: Feature-based recommendation system

Eui-Hong (Sam) Han, George Karypis

October 2005 Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(105.58 KB) Additional Information: full citation, abstract, references, index terms

The explosive growth of the world-wide-web and the emergence of e-commerce has led to the development of recommender systems--a personalized information filtering technology used to identify a set of N items that will be of interest to a certain user. Userbased and model-based collaborative filtering are the most successful technology for building recommender systems to date and is extensively used in many commercial recommender systems. The basic assumption in these algorithms is ...

Keywords: collaborative filtering, e-commerce, product features, recommender systems,

web retailer

#### 98 Tree-Based Batch Mode Reinforcement Learning

Damien Ernst, Pierre Geurts, Louis Wehenkel

September 2005 The Journal of Machine Learning Research, Volume 6

Publisher: MIT Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract

Reinforcement learning aims to determine an optimal control policy from interaction with a system or from observations gathered from a system. In batch mode, it can be achieved by approximating the so-called Q-function based on a set of four-tuples  $(x_t, u_t)$  $r_t$ ,  $x_{t+1}$ ) where  $x_t$  denotes the system state at time t,  $u_t$  the control action taken,  $r_t$  the instantane ...

### 99 Tree-Based Batch Mode Reinforcement Learning

Damien Ernst, Pierre Geurts, Louis Wehenkel

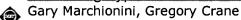
April 2005 The Journal of Machine Learning Research, Volume 6

Publisher: MIT Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract

Reinforcement learning aims to determine an optimal control policy from interaction with a system or from observations gathered from a system. In batch mode, it can be achieved by approximating the so-called Q-function based on a set of four-tuples  $(x_t, u_t)$  $r_t$ ,  $x_{t+1}$ ) where  $x_t$  denotes the system state at time t,  $u_t$  the control action taken,  $r_t$  the instantane ...

# 100 Evaluating hypermedia and learning: methods and results from the Perseus Project



January 1994 ACM Transactions on Information Systems (TOIS), Volume 12 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.57 MB) terms, review

The Perseus Project has developed a hypermedia corpus of materials related to the ancient Greek world. The materials include a variety of texts and images, and tools for using these materials and navigating the sytem. Results from a three-year evaluation of Perseus use in a variety of college settings are described. The evaluation assessed both this particular system and the application of the technological genre to information management and to learning. The evaluation used a variety of me ...

**Keywords**: human-computer interaction, hypermedia, learning, teaching

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Relevance scale

101 Bitext correspondences through rich mark-up

Raquel Martínez, Joseba Abaitua, Arantza Casillas

August 1998 Proceedings of the 17th international conference on Computational linguistics - Volume 2, Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2

Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: pdf(651.98 KB) Publisher Site

Additional Information: full citation, abstract, references

Rich mark-up can considerably benefit the process of establishing bitext correspondences, that is, the task of providing correct identification and alignment methods for text segments that are translation equivalences of each other in a parallel corpus. We present a sentence alignment algorithm that, by taking advantage of previously annotated texts, obtains accuracy rates close to 100%. The algorithm evaluates the similarity of the linguistic and extralinguistic mark-up in both sides of a bitex ...

102 Efficient discovery of error-tolerant frequent itemsets in high dimensions

Cheng Yang, Usama Fayyad, Paul S. Bradley

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(1.11 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a generalization of frequent itemsets allowing for the notion of errors in the itemset definition. We motivate the problem and present an efficient algorithm that identifies error-tolerant frequent clusters of items in transactional data (customerpurchase data, web browsing data, text, etc.). The algorithm exploits sparseness of the underlying data to find large groups of items that are correlated over database records (rows). The notion of transaction coverage allows us to extend th ...

Keywords: Error-tolerant frequent itemset, clustering, collaborative filtering, high dimensions, query selectivity estimation

103 Expected usability and product preference

Turkka Keinonen



August 1997 Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques

Publisher: ACM Press

Full text available: 🔂 pdf(778.76 KB) Additional Information: full citation, references, index terms

**Keywords**: attribute importance, smart product, usability

104 Session 1: creative mathematics: Secure multi-party computation problems and their



applications: a review and open problems Wenliang Du, Mikhail J. Atallah

September 2001 Proceedings of the 2001 workshop on New security paradigms

Publisher: ACM Press

Full text available: pdf(909.09 KB)

Additional Information: full citation, abstract, references, citings, index terms

The growth of the Internet has triggered tremendous opportunities for cooperative computation, where people are jointly conducting computation tasks based on the private inputs they each supplies. These computations could occur between mutually untrusted parties, or even between competitors. For example, customers might send to a remote database queries that contain private information; two competing financial organizations might jointly invest in a project that must satisfy both organizations' ...

**Keywords**: privacy, secure multi-party computation

105 Cluster ensembles --- a knowledge reuse framework for combining multiple partitions



Alexander Strehl, Joydeep Ghosh

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: pdf(842.50 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering without accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call cluster ensembles. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

**Keywords**: cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning

106 Progress report on the study of program reading



Philip Koltun, Lionel E. Deimel, Jo Perry

February 1983 ACM SIGCSE Bulletin, Proceedings of the fourteenth SIGCSE technical symposium on Computer science education SIGCSE '83, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(782.40 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present some ideas here about prose reading comprehension tests, with analogies to program reading exercises, and suggest the potential usefulness of a standardized, nationwide program reading comprehension test as a means to assess on a comparative

basis individual and department-wide progress through the computer science curriculum. We conclude with a research agenda on program reading and encourage contributions to the work from interested colleagues.

### 107 Quantitative evaluation of software quality

B. W. Boehm, J. R. Brown, M. Lipow

October 1976 Proceedings of the 2nd international conference on Software engineering

Publisher: IEEE Computer Society Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, citings, index

terms

The study reported in this paper establishes a conceptual framework and some key initial results in the analysis of the characteristics of software quality. Its main results and conclusions are: • Explicit attention to characteristics of software quality can lead to significant savings in software life-cycle costs. • The current software state-of-the-art imposes specific limitations on our ability to automatically and quantitatively evaluate the quality of so ...

Keywords: Management by objectives, Quality assurance, Quality characteristics, Quality metrics, Software engineering, Software measurement and evaluation, Software quality, Software reliability, Software standards, Testing

### 108 Authentication via keystroke dynamics

Fabian Monrose, Aviel Rubin

April 1997 Proceedings of the 4th ACM conference on Computer and communications security

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

#### 109 Visual information retrieval

Amarnath Gupta, Ramesh Jain

May 1997 Communications of the ACM, Volume 40 Issue 5

Publisher: ACM Press

Full text available: pdf(676.39 KB)

Additional Information: full citation, references, citings, index terms,

review

# 110 Workshop on software engineering decision support: components: Challenges in



COTS decision-making: a goal-driven requirements engineering perspective Carina Alves, Anthony Finkelstein

July 2002 Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references

This position paper outlines the problems and risks of selecting COTS products. In particular, we highlight the challenges of the decision-making process where requirements specification plays an essential role to evaluate and compare products features. It is necessary to perform a careful balancing between requirements and COTS features. Customers may have to compromise on requirements not satisfied by any available product or request products modifications. We analyse the problems and risks ar ...

**Keywords**: decision-making COTS-based system, requirements engineering

111 A comparative analysis of MIS project selection mechanisms

James D. McKeen, Tor Guimaraes, James C. Wetherbe August 1994 ACM SIGMIS Database, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(1.78 MB)

Additional Information: full citation, abstract, index terms

MIS projects are selected by any of four different groups within organizations: top management, steering committees, user departments, and MIS departments. Because of their inherent differences, each of these groups is likely to favor different types of MIS projects. That is, they exhibit different selection biasing. An investigation of the nature and extent of this biasing is examined in this research. Data were collected from 176 MIS projects selected from 60 organizations. Projects were catego ...

**Keywords**: MIS project selection, application system selection, resource allocation, steering committees, top management involvement

112 The pragmatics of referring and the modality of communication

Philip R. Cohen

April 1984 Computational Linguistics, Volume 10 Issue 2

Publisher: MIT Press

Publisher Site

Full text available: pdf(3.89 MB) Additional Information: full citation, abstract, references, citings

This paper presents empirical results comparing spoken and keyboard communication. It is shown that speakers attempt to achieve more detailed goals in giving instructions than do users of keyboards. One specific kind of fine-grained communicative act, a request that the hearer identify the referent of a noun phrase, is shown to dominate spoken instruction-giving discourse, but is nearly absent from keyboard discourse. Most important, these requests are only achieved "indirectly". -- through utte ...

113 A comparative analysis of MIS project selection mechanisms

James D. McKeen, Tor Guimaraes, James C. Wetherbe February 1994 ACM SIGMIS Database, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.63 MB)

Additional Information: full citation, abstract, index terms

MIS projects are selected by any of four different groups within organizations---top management, steering committees, user departments and MIS departments. Because of their inherent differences, each of these groups is likely to favor different types of MIS projects. That is, they exhibit different selection biasing. An investigation of the nature and extent of this biasing is examined in this research. Data were collected from 176 MIS projects selected from 60 organizations. Projects were catego ...

**Keywords**: MIS project selection, application system selection, resource allocation, steering committees, top management involvement

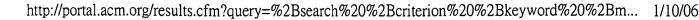
114 Reasoning about inconsistencies in natural language requirements

Vincenzo Gervasi, Didar Zowghi

July 2005 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 14 Issue 3

Publisher: ACM Press



Full text available: pdf(2.76 MB) Additional Information: full citation, abstract, references, index terms

The use of logic in identifying and analyzing inconsistency in requirements from multiple stakeholders has been found to be effective in a number of studies. Nonmonotonic logic is a theoretically well-founded formalism that is especially suited for supporting the evolution of requirements. However, direct use of logic for expressing requirements and discussing them with stakeholders poses serious usability problems, since in most cases stakeholders cannot be expected to be fluent with formal log ...

Keywords: Requirements, default logic, inconsistency, natural language

115 Inducing information extraction systems for new languages via cross-language projection

Ellen Riloff, Charles Schafer, David Yarowsky

August 2002 Proceedings of the 19th international conference on Computational linguistics - Volume 1

Publisher: Association for Computational Linguistics

Full text available: pdf(110.85 KB) Additional Information: full citation, abstract, references

Information extraction (IE) systems are costly to build because they require development texts, parsing tools, and specialized dictionaries for each application domain and each natural language that needs to be processed. We present a novel method for rapidly creating IE systems for new languages by exploiting existing IE systems via crosslanguage projection. Given an IE system for a source language (e.g., English), we can transfer its annotations to corresponding texts in a target language (e. ...

116 Exploring the applications of user-expertise assessment for intelligent interfaces

Michel C. Desmarais, Jiming Liu

May 1993 Proceedings of the SIGCHI conference on Human factors in computing systems

**Publisher: ACM Press** 

Full text available: Topdf(639.86 KB) Additional Information: full citation, abstract, references, index terms

An adaptive user interface relies, to a large extent, upon an adequate user model (e.g., a representation of user-expertise). However, building a user model may be a tedious and time consuming task that will render such an interface unattractive to developers. We thus need an effective means of inferring the user model at low cost. In this paper, we describe a technique for automatically inferring a fine-grain model of a user's knowledge state based on a small number of observations. With t ...

Keywords: adaptive training systems, entropy, evidence aggregation, intelligent interfaces, knowledge spaces, probabilistic reasoning, user-expertise assessment

117 Papers: Learning to recognize names across languages

Anthony F. Gallippi

August 1996 Proceedings of the 16th conference on Computational linguistics -Volume 1

Publisher: Association for Computational Linguistics

Full text available: pdf(660.29 KB) Additional Information: full citation, abstract, references

The development of natural language processing (NLP) systems that perform machine translation (MT) and information retrieval (IR) has highlighted the need for the automatic recognition of proper names. While various name recognizers have been developed, they suffer from being too limited; some only recognize one name class, and all are language specific. This work develops an approach to multilingual name recognition that allows a system optimized for one language to be ported to another with li ...

## 118 Learning about hidden events in system interactions

Stephen Casner, Clayton Lewis

May 1986 ACM SIGCHI Bulletin, Proceedings of the SIGCHI/GI conference on Human factors in computing systems and graphics interface CHI '87, Volume 17 Issue SI

Publisher: ACM Press

Full text available: pdf(506.37 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Understanding how to use a computer system often requires knowledge of hidden events: things which happen as a result of user actions but which produce no immediate perceptible effect. How do users learn about these events? Will learners explain the mechanism in detail or only at the level at which they are able to use it? We extend Lewis' EXPL model of causal analysis, incorporating ideas from Miyake, Draper, and Dietterich, to give an account of learning about hidden events from examples. ...

Keywords: example-based learning, explanations, models of learning

## 119 Cluster ensemble and its applications in gene expression analysis

Xiaohua Hu, Illhoi Yoo

January 2004 Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04

Publisher: Australian Computer Society, Inc.

Full text available: pdf(377.08 KB) Additional Information: full citation, abstract, references

Huge amount of gene expression data have been generated as a result of the human genomic project. Clustering has been used extensively in mining these gene expression data to find important genetic and biological information. Obtaining high quality clustering results is very challenging because of the inconsistency of the results of different clustering algorithms and noise in the gene expression data. Many clustering algorithms are available and different clustering algorithms may generate diff ...

Keywords: cluster ensemble, gene expression analysis, graph partition

## 120 Student best paper contest: Confidence-based dynamic ensemble for image

annotation and semantics discovery

Beitao Li, Kingshy Goh

November 2003 Proceedings of the eleventh ACM international conference on Multimedia

**Publisher:** ACM Press

Full text available: pdf(275.37 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Providing accurate and scalable solutions to map low-level perceptual features to high-level semantics is critical for multimedia information organization and retrieval. In this paper, we propose a confidence-based dynamic ensemble (CDE) to overcome the shortcomings of the traditional *static* classifiers. In contrast to the traditional models, CDE can make dynamic adjustments to accommodate new semantics, to assist the discovery of useful low-level features, and to improve class-prediction ...

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Relevance scale

Poster 3: content track: Highlight ranking for sports video browsing

Xiaofeng Tong, Qingshan Liu, Yifan Zhang, Hanqing Lu

window

November 2005 Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05

Publisher: ACM Press

Full text available: pdf(344.00 KB) Additional Information: full citation, abstract, references, index terms

Sports video has been extensively studied for its wide viewer-ship and tremendous commercial potentials. Many studies focused on highlight extraction for summarizing a lengthy video. In this paper, we present an advanced highlight analysis system for sports video browsing, in which highlight evaluation and ranking are concerned besides highlight detection. First, we use replay detection to efficiently localize the highlights. Then incorporating with domain-specific knowledge, we adopt several si ...

Keywords: highlight ranking, replay detection, video browsing

122 A software engineering experiment in software component generation

Richard B. Kieburtz, Laura McKinney, Jeffrey M. Bell, James Hook, Alex Kotov, Jeffrey Lewis, Dino P. Oliva, Tim Sheard, Ira Smith, Lisa Walton

May 1996 Proceedings of the 18th international conference on Software engineering

Publisher: IEEE Computer Society

Publisher Site

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index

The paper presents results of a software engineering experiment in which a new technology for constructing program generators from domain-specific specification languages has been compared with a reuse technology that employs sets of reusable Ada program templates. Both technologies were applied to a common problem domain, constructing message translation and validation modules for military command, control, communications and information systems (C/sup 3/I). The experiment employed four subject ...

Keywords: flexibility, productivity, reliability, software component generation, usability

Educating software engineering students to manage risk

Barry Boehm, Daniel Port

July 2001 Proceedings of the 23rd International Conference on Software Engineering

Publisher: IEEE Computer Society Full text available: pdf(110.12 KB)

Additional Information: full citation, abstract, references, index terms Publish<u>er Site</u>

In 1996, USC switched its core two-semester software engineering course from a hypothetical-project, homework-and-exam course based on the Bloom taxonomy of educational objectives (knowledge, comprehension, application, analysis, synthesis, evaluation). The revised course is a real-client team-project course based on the CRESST model of learning objectives (content understanding, problem solving, collaboration, communication, and self-regulation). We used the CRESST cognitive demands analysis ...

Keywords: process models, product models, project courses, property models, risk management, software engineering education, success models

124 Research Contributions: Measuring organizational IS effectiveness: an overview and





update of senior management perspectives

Peter B. Seddon, Valerie Graeser, Leslie P. Willcocks June 2002 ACM SIGMIS Database, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(333.21 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper reports the views of 80 senior IT managers about IT evaluation approaches, and the benefits that IT provides for their organizations. Their views were obtained through a survey mailed to medium to large organizations in both Europe and the US. The survey sought answers to three questions: How does the senior IT manager's organization assess the value of its (1) overall IT investment portfolio? (2) individual IT projects and applications? (3) IT function? Questions for the survey were ...

Keywords: IS effectiveness, IS evaluation, IS success, IT benchmarking, IT evaluation, IT outsourcing, balanced scorecard, feasibility studies, post-implementation review

125 The participatory design of a sound and image enhanced daily planner for people



with aphasia

Karyn Moffatt, Joanna McGrenere, Barbara Purves, Maria Klawe

April 2004 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

Aphasia is a cognitive disorder that impairs speech and language. From interviews with aphasic individuals, their caregivers, and speech-language pathologists, the need was identified for a daily planner that allows aphasic users to independently manage their appointments. We used a participatory design approach to develop ESI Planner (the Enhanced with Sound and Images Planner) for use on a PDA and subsequently evaluated it in a lab study. This methodology was used in order to achieve both usab ...

Keywords: assistive technology, cognitive disabilities, handheld devices, multi-modal interaction, participatory design, universal usability

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IEEE STD IEEE Standard

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1. Model for interactive retrieval of videos and still images

Simonnot, B.; Smail, M.;

Multi-Media Database Management Systems, 1995. Proceedings., International

28-30 Aug. 1995 Page(s):128 - 142

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